

## Substitute Abstract

~~The invention concerns a process and a~~ [[A]]system (1') for acquiring and transmitting, in real time, data representing the position in space, in terms of spatial coordinates and inclination with respect to a reference point, of a video camera (10'), while the camera moves along a trajectory. The acquired data thus acquired, once processed, permit determination of the position and inclination of the images obtained. ~~The system (1')~~ [[It's]] consists of two principal subsystems: a module containing an inertial sensing unit (11') to be attached to the camera (10') and a module for data processing using stored software programs (2), communicating with the inertial sensing unit via a connection (112'), either wired or wireless. It has applications in the integration of images captured by the camera with ~~synthetic~~ ~~images~~ images from [[an]] other sources and in navigation within a virtual universe.